

BookletChart™

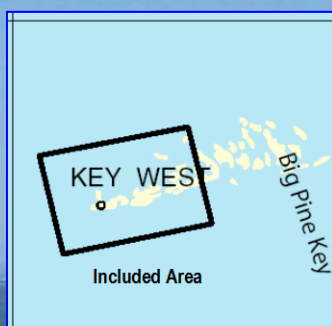


Intracoastal Waterway – Sugarloaf Key to Key West

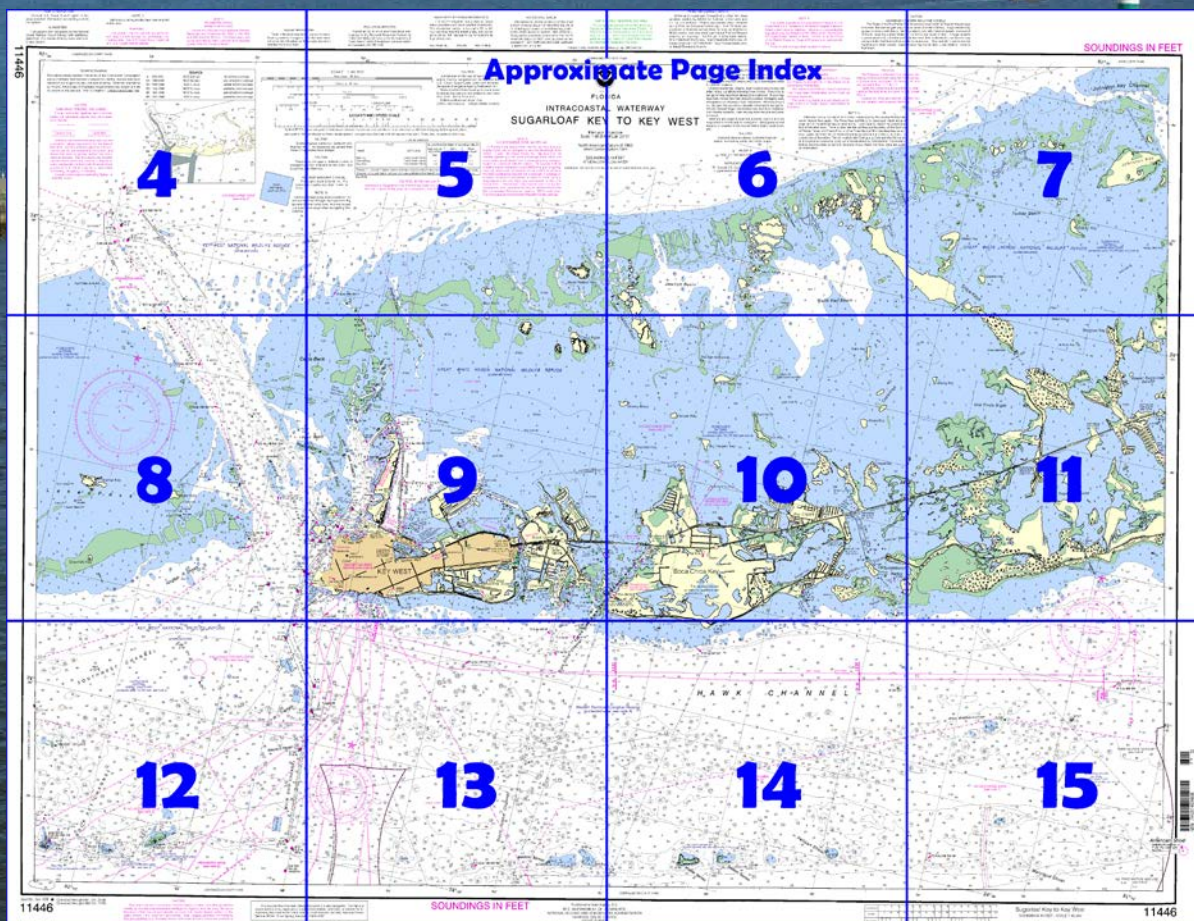
NOAA Chart 11446

A reduced-scale NOAA nautical chart for small boaters

When possible, use the full-size NOAA chart for navigation.



- Complete, reduced-scale nautical chart
- Print at home for free
- Convenient size
- Up-to-date with Notices to Mariners
- Compiled by NOAA's Office of Coast Survey, the nation's chartmaker



Published by the
National Oceanic and Atmospheric Administration
National Ocean Service
Office of Coast Survey
www.NauticalCharts.NOAA.gov
888-990-NOAA

What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

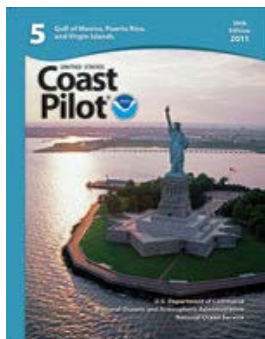
Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.

For latest Coast Pilot excerpt visit the Office of Coast Survey website at <http://www.nauticalcharts.noaa.gov/nsd/searchbychart.php?chart=11446>.



(Selected Excerpts from Coast Pilot)

Sombrero Key Light (24°37'40"N., 81°06'39"W.), 142 feet above the water, is shown from a brown, octagonal, pyramidal skeleton tower on pile foundation, enclosing a square dwelling and stair cylinder; a racon is at the light.

Moser Channel is northwestward of Sombrero Key Light and 95 miles southwestward of Miami. It affords a passage for vessels of 7 to 8 feet in draft between the Florida Keys from the Straits

of Florida to Florida Bay. The swing span of Seven Mile Bridge across Moser Channel has been removed; but the bridge piers remain. The fixed highway bridge south of the swing span has a clearance of 65 feet.

The tidal current at the bridge has a velocity of about 1.4 to 1.8 knots. Wind effects modify the current velocity considerably at times; easterly winds tend to increase the northward flow and westerly winds the southward flow. Overfalls that may swamp a small boat are said to occur near the bridge at times of large tides. (For predictions, see the Tidal Current Tables.)

Route.—A route with a reported controlling depth of 8 feet, in July 1975, from the Straits of Florida via the Moser Channel to the Gulf of Mexico is as follows: From a point 0.5 mile 336° from the center of the bridge, pass 200 yards west of the light on Red Bay Bank, thence 0.4 mile east of the light on Bullard Bank, thence to a position 3 miles west of Northwest Cape of Cape Sable (chart 11431), thence to destination.

Bahia Honda Channel (Bahia Honda), 10 miles northwestward of Sombrero Key and between Bahia Honda Key on the east and **Scout Key** on the west, is the deepest channel between the Straits of Florida and Florida Bay. In 1983, the reported controlling depth was 8 feet from Hawk Channel to Little Pine Key. The passage is crossed by three fixed highway bridges. The southernmost has a clearance of 20 feet over the channel and unlimited vertical clearances at an opening at each end. Mariners are advised to navigate with extreme caution as falling and hanging debris exists in the area. The twin bridges to northward have a clearance of 23 feet over the channel. The direction of the current should be carefully watched when turning northwestward after passing under the bridges in order to avoid being grounded on the banks on either side of the channel. These banks are usually visible. Currents through the passage average 2 knots or more at strength. (For predictions at the southernmost bridge, see the Tidal Current Tables.) A marina with two boat basins is at the Bahia Honda State Park, on the bayside and near the western end of **Bahia Honda Key**. In 1981, depths of 4 feet were reported in the unmarked entrance channel, with 7 to 15 feet in the basins.

A marina on the northwest side of **Ohio Key**, northeast of Bahia Honda Key, provides berths, gasoline, diesel fuel, water, electricity, ice, limited marine supplies, and a launching ramp; a forklift can handle craft to 23 feet. In 1981, the reported controlling depth was 6 feet in the privately marked entrance channel with 5 to 6 feet reported alongside the berths.

Newfound Harbor Keys Anchorage, 16 miles westward of Sombrero Key Light, is in depths of 19 to 22 feet in the channel northeastward of the light at the west end of the keys. **Newfound Harbor Channel** to the northward is clearly defined by the appearance of the water, and is marked by a light and daybeacons. A strong current sets fair with the channel. In 1983, the reported controlling depth was 4 feet to the western of two bridges at the head, 3.4 miles above the entrance. Clearances at the bridges are 15 feet under the westerly span and 9 feet under the easterly span.

A marina is on the west side of **Big Pine Key** about 0.25 mile south of the easterly span. Gasoline, diesel fuel, water, ice, marine supplies, a 2½-ton forklift, and minor hull and engine repairs are available. In 1981, a depth of 3 feet was reported available to the marina.

A marina on the east side of **Little Torch Key**, just south of the westerly span, provides berths with electricity, gasoline, diesel fuel, water, ice, and a launching ramp are available. In 1991, depths of 4 feet were reported in the approach with 10 feet alongside the berths.

A **restricted area** is between Big Pine Key and Little Torch Key due to the presence of high tension power lines. (See Notice to Mariners and latest edition of charts for limits and note.)

U.S. Coast Guard Rescue Coordination Center 24 hour Regional Contact for Emergencies

RCC New Orleans

Commander

8th CG District

New Orleans, LA

(504) 589-6225

Navigation Managers Area of Responsibility



NOAA's navigation managers serve as ambassadors to the maritime community.

They help identify navigational challenges facing professional and recreational mariners, and provide NOAA resources and information for safe navigation. For additional information, please visit nauticalcharts.noaa.gov/service/navmanagers

To make suggestions or ask questions online, go to nauticalcharts.noaa.gov/inquiry.

To report a chart discrepancy, please use ocsdata.ncd.noaa.gov/idrs/discrepancy.aspx.

Lateral System As Seen Entering From Seaward

on navigable waters except Western Rivers



For more information on aids to navigation, including those on Western Rivers, please consult the latest USCG Light List for your area.

These volumes are available online at <http://www.navcen.uscg.gov>

AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers and U.S. Coast Guard.

NOTE C
Numerous submerged piles have been reported in this area.

WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOTE D
PROHIBITED AREAS
(Areas to be avoided)
Under the Florida Keys National Marine Sanctuary and Protection Act, Pub. L. 101-605 and IMO advisory SN/Circ. 145, these areas are to be avoided by tank vessels and vessels greater than 50 meters in length.

RADAR REFLECTORS
Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

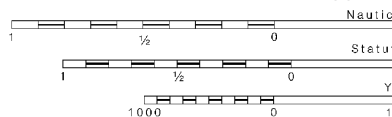
Pipeline Area Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

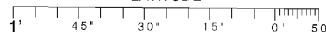
SOURCE

A 1990-2010	NOS Surveys	full bottom coverage
B1 1990-2011	NOS Surveys	partial bottom coverage
B2 1970-1989	NOS Surveys	partial bottom coverage
B3 1940-1969	NOS Surveys	partial bottom coverage
B4 1900-1939	NOS Surveys	partial bottom coverage
B5 1834-1899	NOS Surveys	partial bottom coverage

SCALE



LATITUDE



CAUTION

Overhead power cables run parallel to Highway No. 1. All clearances are greater than those of the charted fixed bridges.

CAUTION

Temporary changes or defects in a navigation are not indicated on this chart. Local Notice to Mariners.

KEY WEST MAIN SHIP CHANNEL
The project depth is 34-30 feet. For controlling depths see chart 11441.

NOTE B

Extensive shoaling has been reported in marked channel through the Keys from Spanish Channel to Key West. Mariners should use local knowledge when navigating waterway.

11446

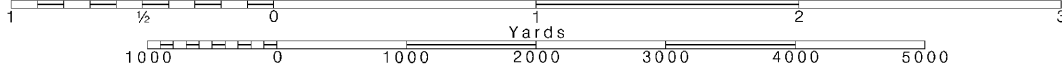
4

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:40,000
Nautical Miles

See Note on page 5.



POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio station listed below provides continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Key West, FL WXJ-95 162.400 MHz

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 1.521" northward and 0.685" eastward to agree with this chart.

PARTICULARLY SENSITIVE SEA AREA

This chart falls entirely within the limits of a Particularly Sensitive Sea Area (PSSA). A PSSA is an environmentally sensitive area around which mariners should exercise extreme caution. See U.S. Coast Pilot volumes for information regarding this area.

Formerly 11445B, C&GS 854, 1st Combined Ed., Apr. 1969 KAPP 330

Scale 1:40,000

Nautical Miles

Statute Miles

Yards

1000 2000 3000

LONGITUDE

0° 1' 45" 30' 15" 0" 50"

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117. Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution. Station positions are shown thus:

○ (Accurate location) ◐ (Approximate location)

NOAA

U.S. COAST AND GEODETIC SURVEY

THE NATION'S CHARTMAKER SINCE 1807

NAME	PLACE (LAT/LONG)	Mean Higher High Water (feet)	Mean High Water (feet)	Mean Low Water (feet)
Johnston Key	(24°43'N/081°36'W)	2.0	1.7	0.1
3rd Key	(24°35'N/081°38'W)	1.1	0.9	0.1
Shark Key	(24°36'N/081°39'W)	1.0	0.8	0.1
Snake Key	(24°42'N/081°40'W)	2.9	2.6	0.3
Key West	(24°33'N/081°49'W)	1.8	1.5	0.2
300a Chica Marina	(24°35'N/081°43'W)	1.2	1.0	0.2

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from <http://tidesandcurrents.noaa.gov/>. (Jan 2013)

COLREGS. 80.740 (see note A)

International Regulations for Preventing Collisions at Sea, 1972.

The entire area of this chart falls seaward of the COLREGS Demarcation Line.

GREAT WHITE HERON NATIONAL WILDLIFE REFUGE (protected area)

(use chart 11441)

Scale 1:40,000 at Lat. 24°31'

SOUNDINGS IN FEET AT MEAN LOWER LOW WATER

Joins page 6

Joins page 9

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

5

HORIZONTAL DATUM

Horizontal reference datum of this chart is Datum of 1983 (NAD 83), which poses is considered equivalent to the datum of the World Geodetic System 1984 (WGS 84). Positions referred to the North of 1927 must be corrected an " northward and 0.685" eastward is chart.

Formerly 11445B, C&GS 864, 1st Combined Ed., Apr. 1969 KAPP 330

PARTICULARLY SENSITIVE SEA AREA

This chart falls entirely within the limits of a Particularly Sensitive Sea Area (PSSA). A PSSA is an environmentally sensitive area around which mariners should exercise extreme caution. See U.S. Coast Pilot volumes for information regarding this area.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilots 4 & 5. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 7th Coast Guard District in Miami, Florida, or at the Office of the District Engineer, Corps of Engineers in Jacksonville, Florida.

Refer to charted regulation section numbers.

46' CONTINUED ON CHART 11442 44' 42'



THE NATION'S CHARTMAKER SINCE 1807

FLORIDA

INTRACOASTAL WATERWAY

GARLOAF KEY TO KEY WEST

Mercator Projection
Scale 1:40,000 at Lat. 24°31'

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

HURRICANES AND TROPICAL STORMS

Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations.

Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved.

Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard unit.

INTRACOASTAL WATERWAY

The Intracoastal Waterway is a 12-foot wide channel, 12 feet from Norfolk, Virginia, thence 10 feet to Miami, Florida, thence 7 feet to Cross Bank in Florida. Controlling depths are indicated in the U.S. Coast Guard Notices to Mariners.

Additional information can be obtained at the Office of the District Engineer, Corps of Engineers in Jacksonville, Florida.

NOTE X

Within the 12-nautical mile Territorial Sea, established by Federal laws apply. The Three Nautical Mile limit of the territorial sea, is retained as it is the outer limit of the other laws. The 9-nautical mile Natural Resource Limit of Florida, Texas, and Puerto Rico, and the Three Nautical Mile limit of the inner limit of Federal fisheries jurisdiction of the states. The 24-nautical mile Continental Shelf Exclusive Economic Zone were established by treaty or the U.S. Supreme Court to modification.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

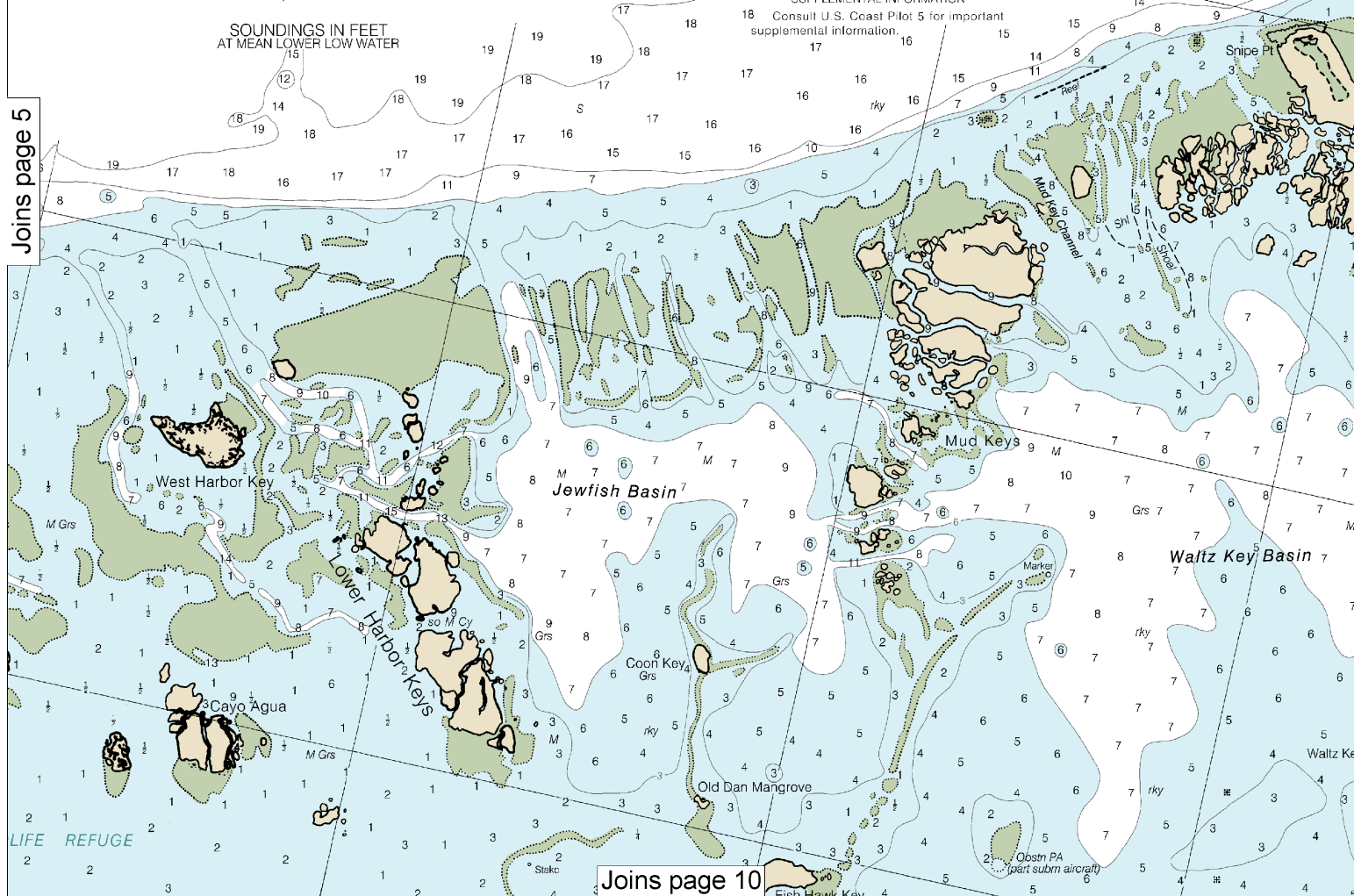
HEIGHTS

19 Heights in feet above Mean High Water.

SUPPLEMENTAL INFORMATION

18 Consult U.S. Coast Pilot 5 for important supplemental information.

Joins page 5



Joins page 10

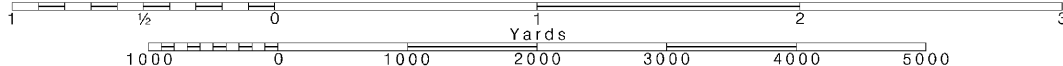
6

Note: Chart grid lines are aligned with true north.

Printed at reduced scale.

SCALE 1:40,000
Nautical Miles

See Note on page 5.



NOTE Z
NO-DISCHARGE ZONE, 40 CFR 140

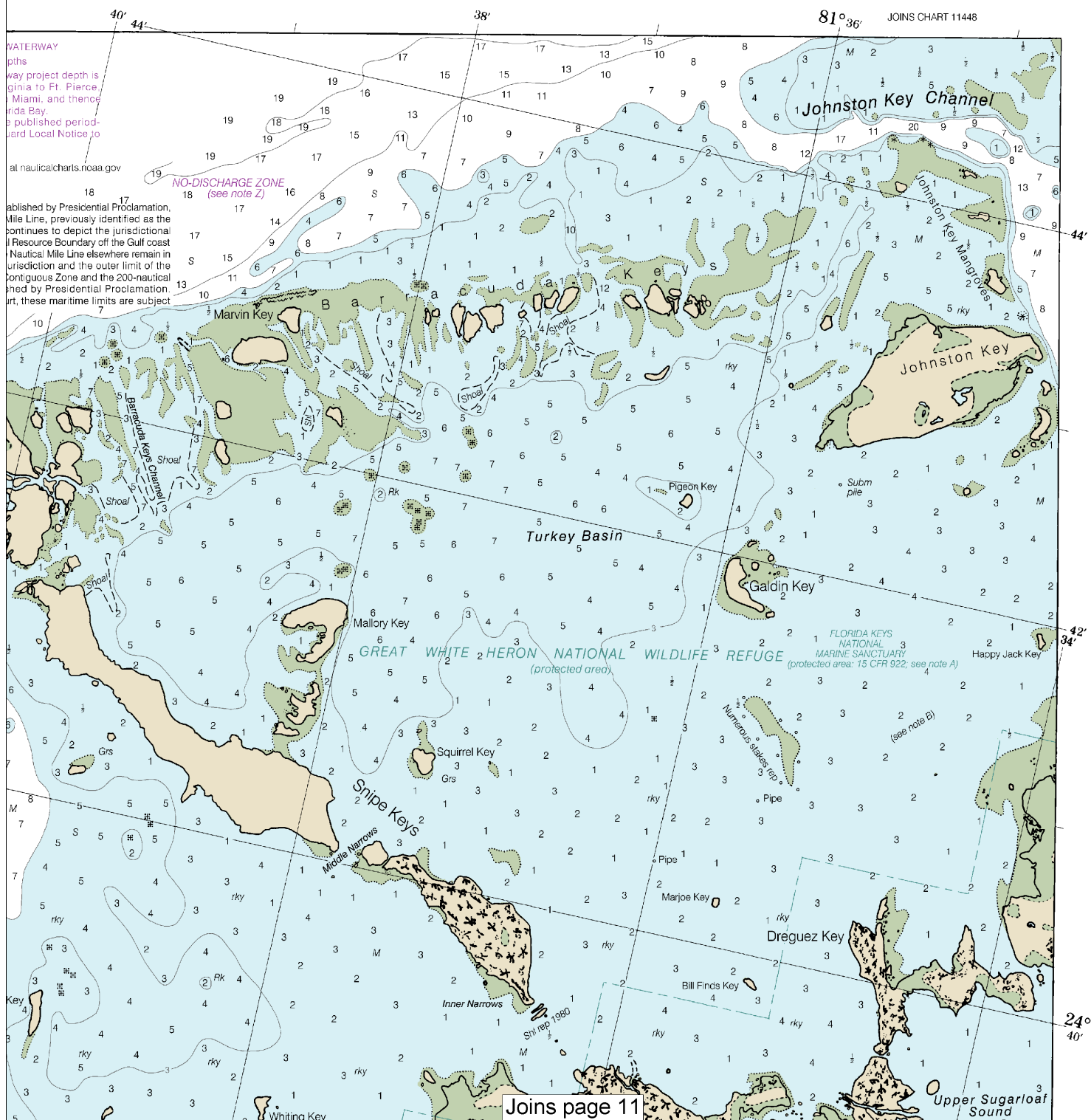
All Florida State waters within the Florida Keys National Marine Sanctuary are designated as a No-Discharge Zone (NDZ). Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

CAUTION

WARNINGS CONCERNING LARGE VESSELS

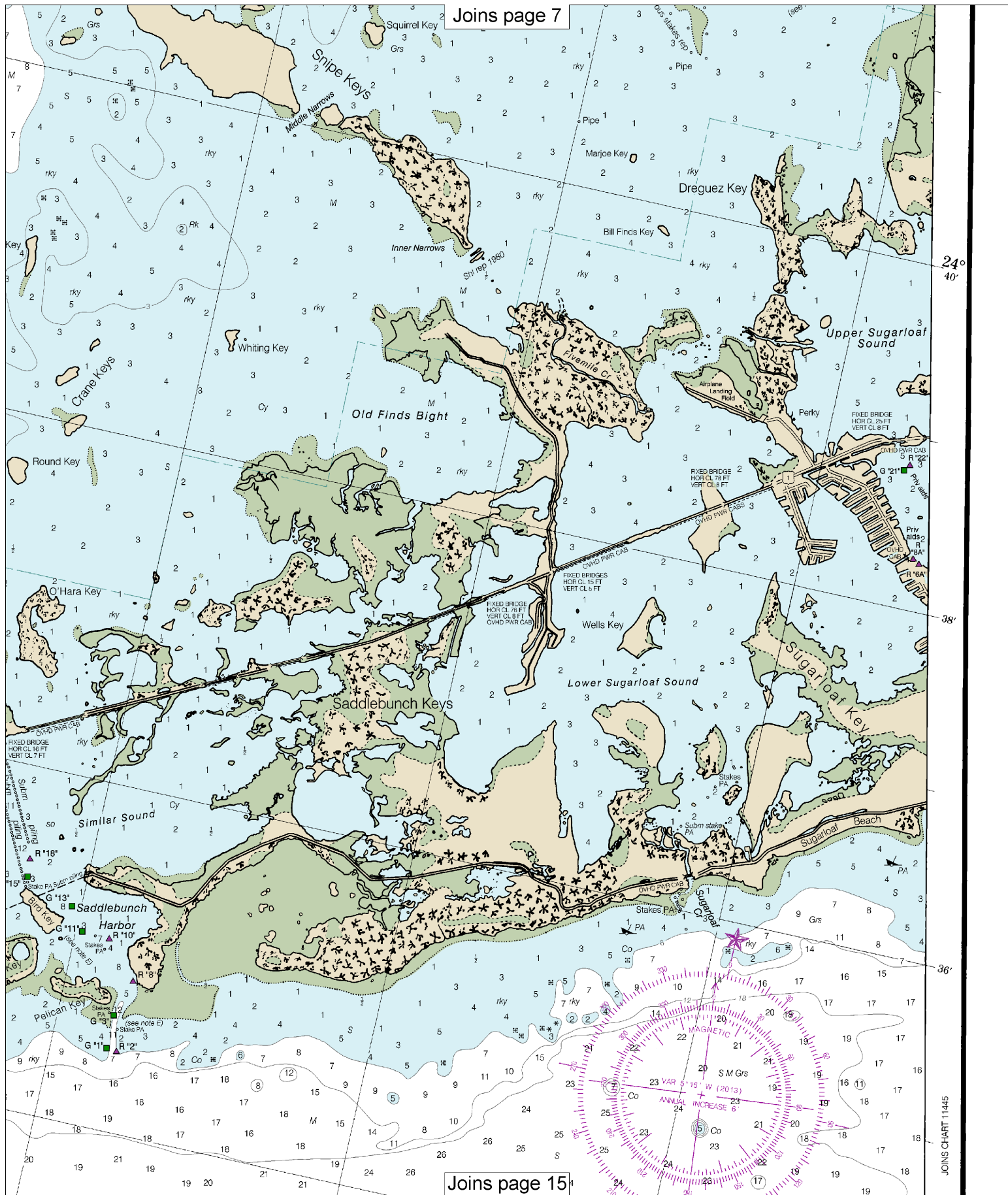
The "Rules of the Road" state that recreational boats shall not impede the passage of a vessel that can navigate only within a narrow channel or fairway. Large vessels may appear to move slowly due to their large size but actually transit at speeds in excess of 12 knots, requiring a great distance in which to maneuver or stop. A large vessel's superstructure may block the wind with the result that sailboats and sailboards may unexpectedly find themselves unable to maneuver. Bow and stern waves can be hazardous to small vessels. Large vessels may not be able to see small craft close to their bows.

SOUNDINGS IN FEET



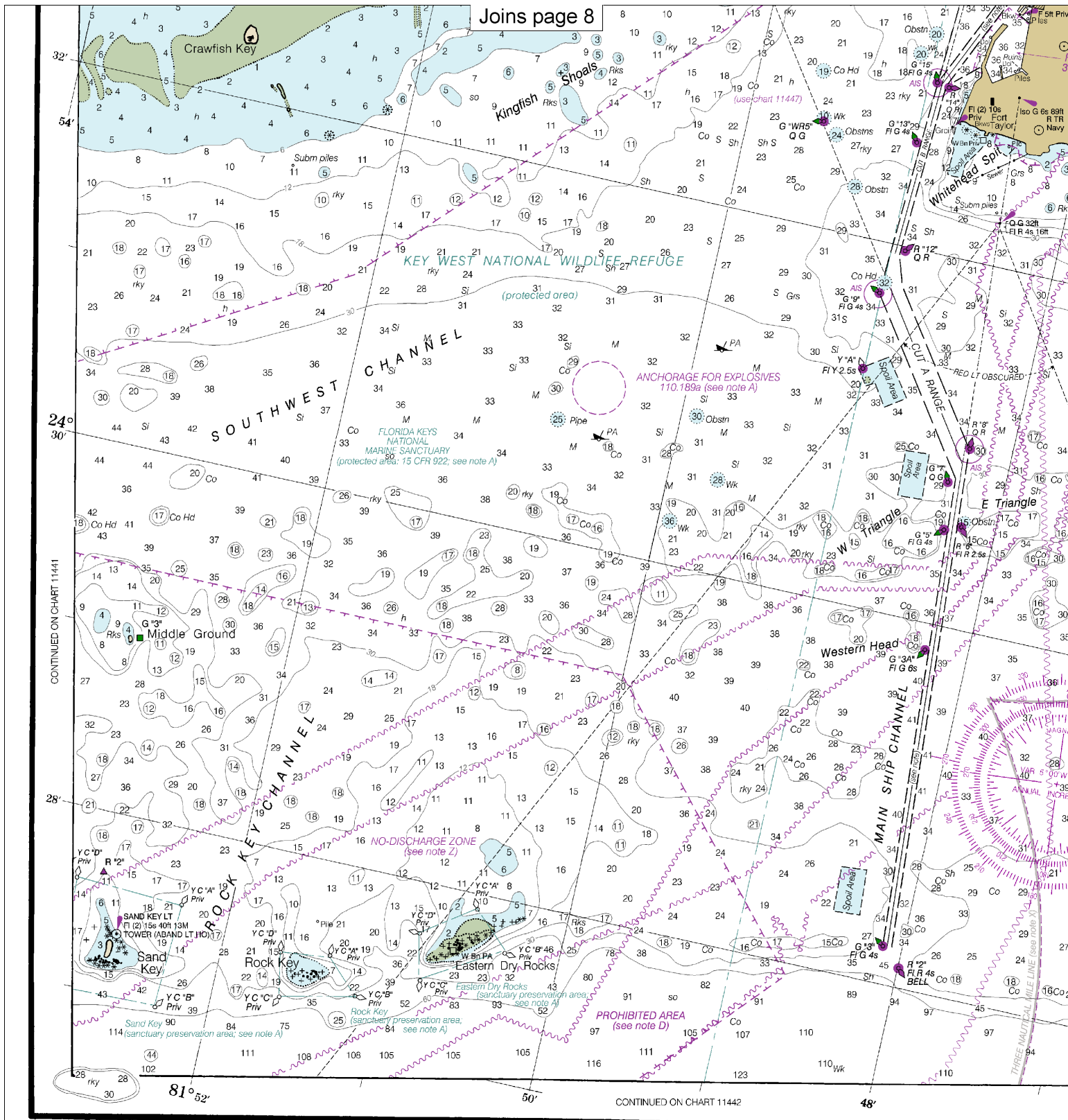
Last Correction: 6/15/2016, Cleared through:
LNM: 2416 (6/14/2016), NM: 2716 (7/2/2016)

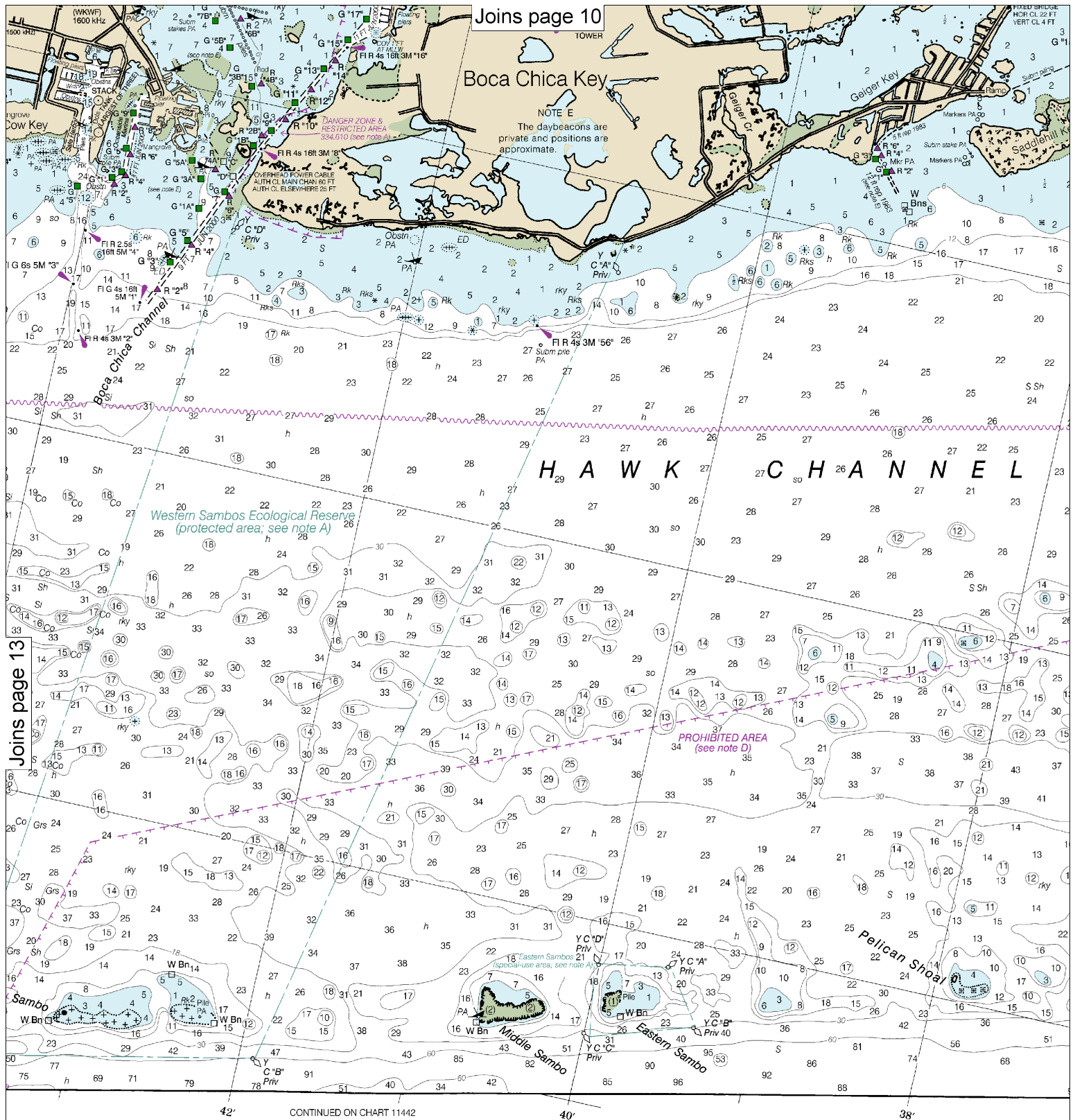
Joins page 7



Joins page 15

JOINS CHART 11445





Joins page 10

Boca Chica Key

NOTE E
The daybeacons are private and positions are approximate.

HAWK CHANNEL

Western Sambois Ecological Reserve
(protected area; see note A)

PROHIBITED AREA
(see note D)

Pelican Shoal

CONTINUED ON CHART 11442

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

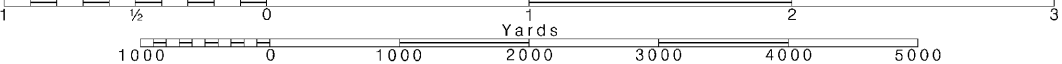
14

Note: Chart grid lines are aligned with true north.

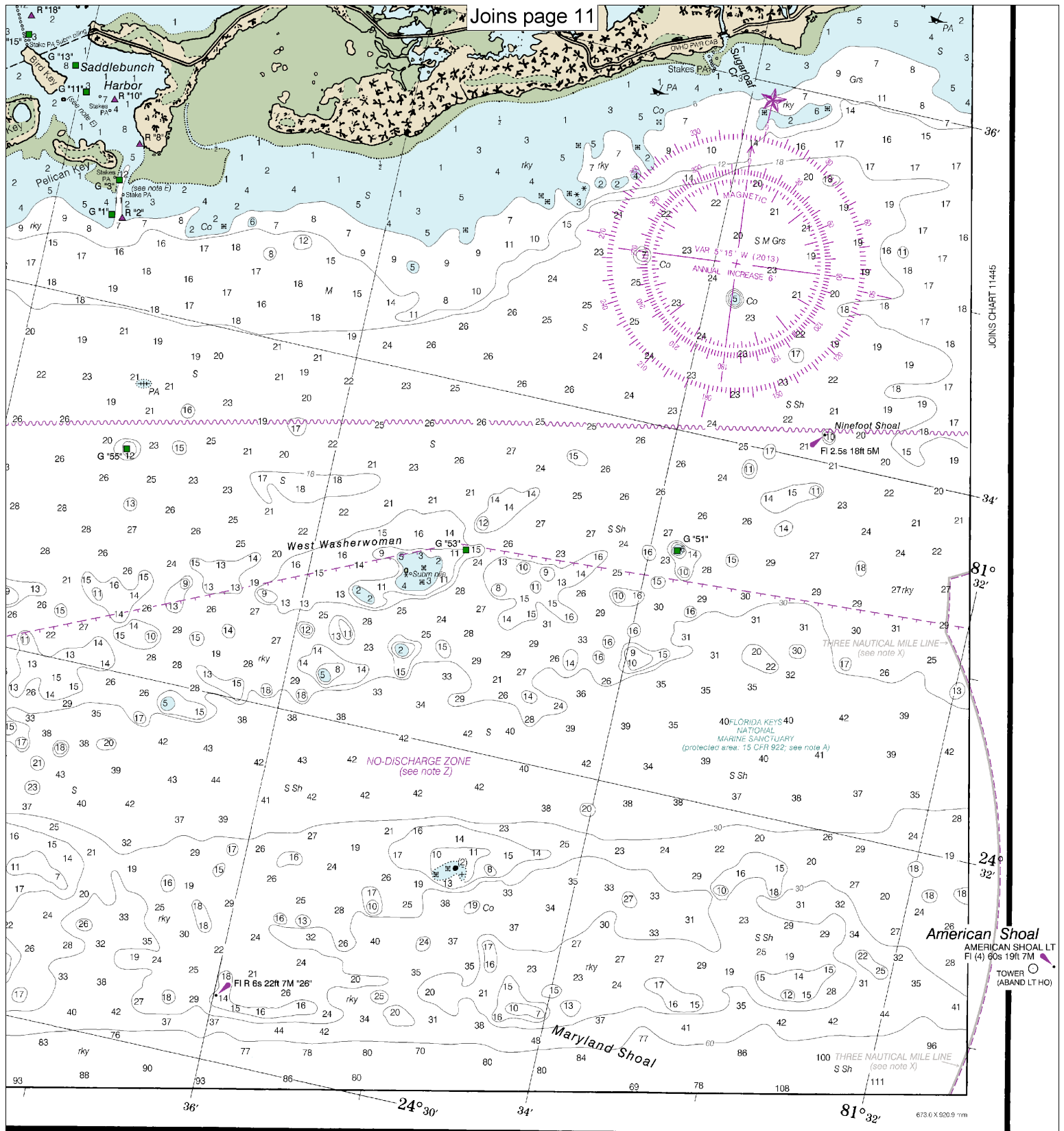
Printed at reduced scale.

SCALE 1:40,000
Nautical Miles

See Note on page 5.



Joins page 11



FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Sugarloaf Key to Key West
SOUNDINGS IN FEET - SCALE 1:40,000

11446



VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other

vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 and 78A – Recreational boat channels.

Getting and Giving Help — Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA Weather Radio All Hazards (NWR) is a nationwide network of radio stations broadcasting continuous weather information directly from the nearest National Weather Service office. NWR broadcasts official Weather Service warnings, watches, forecasts and other hazard information 24 hours a day, 7 days a week.

<http://www.nws.noaa.gov/nwr/>

Distress Call Procedures

- Make sure radio is on.
- Select Channel 16.
- Press/Hold the transmit button.
- Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- Release transmit button.
- Wait for 10 seconds — If no response Repeat MAYDAY call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!

Quick References

Nautical chart related products and information	—	http://www.nauticalcharts.noaa.gov
Interactive chart catalog	—	http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml
Report a chart discrepancy	—	http://ocsddata.ncd.noaa.gov/idrs/discrepancy.aspx
Chart and chart related inquiries and comments	—	http://ocsddata.ncd.noaa.gov/idrs/inquiry.aspx?frompage=ContactUs
Chart updates (LNM and NM corrections)	—	http://www.nauticalcharts.noaa.gov/mcd/updates/LNM_NM.html
Coast Pilot online	—	http://www.nauticalcharts.noaa.gov/nsd/cpdownload.htm
Tides and Currents	—	http://tidesandcurrents.noaa.gov
Marine Forecasts	—	http://www.nws.noaa.gov/om/marine/home.htm
National Data Buoy Center	—	http://www.ndbc.noaa.gov/
NowCoast web portal for coastal conditions	—	http://www.nowcoast.noaa.gov/
National Weather Service	—	http://www.weather.gov/
National Hurricane Center	—	http://www.nhc.noaa.gov/
Pacific Tsunami Warning Center	—	http://ptwc.weather.gov/
Contact Us	—	http://www.nauticalcharts.noaa.gov/staff/contact.htm



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This Booklet chart has been designed for duplex printing (printed on front and back of one sheet). If a duplex option is not available on your printer, you may print each sheet and arrange them back-to-back to allow for the proper layout when viewing.